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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,413	01/02/2001	David Benedict Bradshaw	MSI-622US	1884

22971 7590 03/22/2006

MICROSOFT CORPORATION  
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EXAMINER

DESIRE, GREGORY M

ART UNIT	PAPER NUMBER
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2624

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/753,413	<b>Applicant(s)</b> BRADSHAW, DAVID BENEDICT	
	<b>Examiner</b> Gregory M. Desire	<b>Art Unit</b> 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 January 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,5-22 and 25-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1,2 and 5-22 is/are allowed.
- 6) ☒ Claim(s) 25-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 January 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. This is responsive to communication filed 1/17/06.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 25- 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniell et al (6,678,421) in view of Yang et al (1999 IEEE, A Semantic classification and composite indexing approach to robust image retrieval).

Regarding method claim 28 Daniell discloses,

Forming a plurality of layers from an image, each layer comprises a plurality of blocks of the image (note col. 5 lines 41-45 and 63-67, col. 6 lines 1-6, decomposing original image into multiple levels blocks), each block in a layer comprising a non-identical region of the image than the other blocks in the layer (see fig. 2 and col. 6 lines 1-6, in multilevel decomposition, smaller block is a smaller part of the larger block, thus blocks are non-identical);

Determining a class likelihood for a block from each layer of the image (as described in specification page 28 lines 18-19, examiner interprets determining posterior estimates of class likelihood of hierarchical layered blocks as using Bayes rule based on multilevel sub bands (note col. 7 lines 7-28), the estimated being bases upon

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class likelihoods of the hierarchical layered blocks in the group (note col. 7 lines 7-28, Bayes rules is based upon the probability of significant and insignificants of the level sub bands), such likelihood being condition on data extracted from hierarchical layered blocks in the group (note col. 3 lines 3-9, col. 6 lines 5-28 and col. 7 lines 1-20, probability being condition on predicted coefficients from sub band levels).

Classifying a portion of the image based upon the combination of the determined class likelihoods (note fig. 7 choose class z and col. 6 lines 7-27, 56-65 col. 7 lines 49-65, classifying high frequency signal using Bayes rules of low frequency information (sub band levels)).

Although Daniell discloses coefficient prediction scheme of sub bands based on content of the input, which is the source of the information. Daniell does not clearly disclose semantically classifying a portion of the image. Yang et al discloses semantically classifying an image (note page 136, col. 1 lines 1-4, images similar semantic meanings wide variety of low-level features). Daniell and Wang are combinable because they disclose classifiers. At the time of the invention, it would have been obvious to a person of ordinary skills in the art to semantically classify a portion of an image in the system of Daniell as evidenced by Yang et al. The suggestion/motivation for doing so would have been improving image classification and bridging the gap between low-level features and high-level semantic meanings (note page 134, col. 2 lines 3-6). Therefore, it would have been obvious to combine Daniell with Yang to obtain the invention as specified in claim 28.

Regarding claims 26 Daniell and Yang discloses,

Wherein the first and second blocks are centered on a common point in the image (note Daniell col. 7 lines 7-14).

Regarding claims 27 Daniell and Yang discloses,

Wherein the first and second blocks are not centered on a common point in the image (note Daniell col. 7 lines 18-28).

#### ***Allowable Subject Matter***

4. Claims 1-2 and 5-22 are allowed.
5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Conclusion***

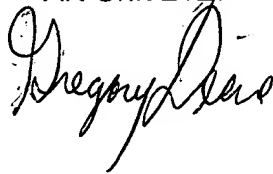
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory M. Desire whose telephone number is (571) 272-7449. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (571) 272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Grégory M. Desire  
Examiner  
Art Unit 2627

A handwritten signature in black ink, appearing to read "Grégory M. Desire", written over the printed name and title.

G.D.

March 17, 2006